



SDS Report

No.: CANML1923363601

Date: 29 Nov 2019

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INSTAGREEN S.A.

75 M OESTE IGLESIA LADRILLO, SAN FRANCISCO, GOICOECHEA, SAN JOSE. 10802

SGS Job No. : SZIN1911016899PC
Sample Name : GREEN EPDM GRANULES FOR ARTIFICIAL GRASS INFILL
End Uses : Artificial grass infill
Composition/Ingredient of sample (as per client submission) : See section 3 Composition/information on ingredients on the SDS report
Job Receiving Date : 25 Nov 2019
SDS Preparation Period : 25 Nov 2019-29 Nov 2019

Service Requested : Safety Data Sheet (SDS) for the sample with submitted composition.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with European Commission Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 2015/830, and is provided per attached.

Remark:

The SDS is prepared based on the information provided by client.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Kelly Qu

Kelly Qu
Approved Signatory



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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Docscheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch

198 Kexu Road, Sciencetech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | (86-20) 82155555 | (86-20) 82075113 | www.sgs.com
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 | (86-20) 82155555 | (86-20) 82075113 | sgs.china@sgs.com

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Safety data sheet
Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 27.11.2019

Version number 1

Revision: 27.11.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** GREEN EPDM GRANULES FOR ARTIFICIAL GRASS INFILL
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** Artificial grass infill
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:** INSTAGREEN S.A.
- **Full address:**
75 M OESTE IGLESIA LADRILLO, SAN FRANCISCO, GOICOECHEA, SAN JOSE. 10802
- **Phone number:** +506-4000-1988
- **Email:** info@instagreen.com
- **Only Representative / other EU contact point:** Not available
- **Further information obtainable from:** INSTAGREEN S.A.
- **1.4 Emergency telephone number:**
GERMANY
Poison Center Berlin - Institute of Toxicology
Tel: +49 030 192 40
- **1.5 Reference Number:** CANML1923363601,SZIN1911016899PC
- **1.6 Remark:**
* This sample is likely to be classified as article with substances not intended to be released and is out of scope of a SDS as set out in Regulation (EC) No 1907/2006. This SDS is generated for client's reference only.

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
-  GHS07
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of Regulation (EC) No.1272/2008.
- **Classification system:**
The classification is according to the latest edition of EU Regulation (EC) No. 1272/2008, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No. 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**
-  GHS07
- **Signal word** Warning
- **Hazard-determining components of labelling:**
zinc bis(dibutyldithiocarbamate)
- **Hazard statements**
H317 May cause an allergic skin reaction.

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H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards:**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients**· **3.2 Mixtures**· **Description:**

Mixture of the substances listed below with nonhazardous additions.

For the wording of the listed hazard statements refer to section 16.

· **Composition:**

CAS: 471-34-1 EINECS: 207-439-9	Calcium carbonate substance with a Community workplace exposure limit	60%
CAS: 25038-36-2	Ethene; (5E)-5-ethylidenebicyclo[2.2.1]hept-2-ene; prop-1-ene	25%
CAS: 8012-95-1 EINECS: 232-384-2	Paraffin oils ⚠ Asp. Tox. 1, H304	8%
CAS: 1309-37-1 EINECS: 215-168-2	Diiron trioxide substance with a Community workplace exposure limit	3%
CAS: 128-37-0 EINECS: 204-881-4	2,6-di-tert-butyl-p-cresol ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1%
CAS: 136-23-2 EINECS: 205-232-8 Index number: 006-081-00-9	zinc bis(dibutyldithiocarbamate) ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	1%
CAS: 1333-86-4 EINECS: 215-609-9	carbon black substance with a Community workplace exposure limit	1%
CAS: 119-61-9 EINECS: 204-337-6	benzophenone ⚠ STOT RE 2, H373; Aquatic Chronic 3, H412	1%

SECTION 4: First aid measures· **4.1 Description of first aid measures**· **General description:** Immediately remove any clothing soiled by the product.· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.· **After eye contact:** Rinse opened eye for several minutes under running water.· **After swallowing:** If symptoms persist consult doctor.· **4.2 Most important symptoms and effects, both acute and delayed:**

No further relevant information available.

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- **4.3 Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture:** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures:** Not required.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water source.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
For the general occupational hygienic measures refer to Section 8.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s):** No further relevant information available.

SECTION 8: Exposure controls/personal protection· **8.1 Control parameters**· **Ingredients with limit values that require monitoring at the workplace:****471-34-1 Calcium carbonate (60%)**VME (France) Long-term value: 10 mg/m³**1309-37-1 Diiron trioxide (3%)**WEL (Great Britain) Short-term value: 10* mg/m³
Long-term value: 5* 10** 4*** mg/m³
*fume (as Fe), **total respirable, ***respirable

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AGW (Germany)	Long-term value: 1.25* 10** mg/m ³ 2(II);*alveolengängig**einatembar; AGS, DFG
VME (France)	Long-term value: 5 mg/m ³
128-37-0 2,6-di-tert-butyl-p-cresol (1%)	
WEL (Great Britain)	Long-term value: 10 mg/m ³
AGW (Germany)	Long-term value: 10 E mg/m ³ 4 (II);DFG, Y, 11
VME (France)	Long-term value: 10 mg/m ³
1333-86-4 carbon black (1%)	
WEL (Great Britain)	Short-term value: 7 mg/m ³ Long-term value: 3.5 mg/m ³
VME (France)	Long-term value: 3.5 mg/m ³

· **Regulatory information**

VME (France): ED 984, 10.2016

WEL (Great Britain): EH40/2018

AGW (Germany): TRGS 900

· **DNELs:** Not available· **PNECs:** Not available· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.

· **Appropriate engineering controls:**

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

See Section 7 for information about design of technical facilities.

· **Personal protective equipment**

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Not required.

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- **Environmental exposure controls:**
Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **Appearance**

- | | |
|---------------------------|---------------|
| · Form: | Solid |
| · Colour: | Green |
| · Odour: | Odourless |
| · Odour threshold: | Not available |

- | | |
|--------------------|---------------|
| · pH-value: | Not available |
|--------------------|---------------|

· **Change in condition**

- | | |
|---|---------------|
| · Melting point/Freezing point: | Not available |
| · Initial boiling point and boiling range: | Not available |

- | | |
|-----------------------|---------------|
| · Flash point: | Not available |
|-----------------------|---------------|

- | | |
|-------------------------------------|---------------|
| · Flammability (solid, gas): | Not available |
|-------------------------------------|---------------|

- | | |
|-------------------------------------|---------------|
| · Auto-ignition temperature: | Not available |
|-------------------------------------|---------------|

- | | |
|-------------------------------------|---------------|
| · Decomposition temperature: | Not available |
|-------------------------------------|---------------|

- | | |
|-------------------------|------------------------------|
| · Self-igniting: | Product is not selfigniting. |
|-------------------------|------------------------------|

- | | |
|--------------------------------|---|
| · Explosive properties: | Product does not present an explosion hazard. |
|--------------------------------|---|

· **Explosion limits**

- | | |
|--------------------------------|---------------|
| · Lower: | Not available |
| · Upper: | Not available |
| · Oxidising properties: | Not available |

- | | |
|---------------------------|---------------|
| · Vapour pressure: | Not available |
|---------------------------|---------------|

- | | |
|-------------------|---------------|
| · Density: | Not available |
|-------------------|---------------|

- | | |
|----------------------------|---------------|
| · Relative density: | Not available |
|----------------------------|---------------|

- | | |
|--------------------------|---------------|
| · Vapour density: | Not available |
|--------------------------|---------------|

- | | |
|----------------------------|---------------|
| · Evaporation rate: | Not available |
|----------------------------|---------------|

· **Solubility in / Miscibility with water:**

Not available

- | | |
|--|---------------|
| · Partition coefficient: n-octanol/water: | Not available |
|--|---------------|

· **Viscosity**

- | | |
|---------------------|---------------|
| · Dynamic: | Not available |
| · Kinematic: | Not available |

- | | |
|--------------------------------|--|
| · 9.2 Other information | No further relevant information available. |
|--------------------------------|--|

SECTION 10: Stability and reactivity

- **10.1 Reactivity:** Data not available
- **10.2 Chemical stability:** Data not available
- **10.3 Possibility of hazardous reactions:** No dangerous reactions known.
- **10.4 Conditions to avoid:** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.

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· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

471-34-1 Calcium carbonate

Oral	LD50	6,450 mg/kg (rat)
------	------	-------------------

8012-95-1 Paraffin oils

Oral	LD50	22,000 mg/kg (mouse)
		>24,000 mg/kg (rat)

1309-37-1 Diiron trioxide

Oral	LD50	>5,000 mg/kg (rat)
------	------	--------------------

1333-86-4 carbon black

Oral	LD50	10,000 mg/kg (rat)
------	------	--------------------

119-61-9 benzophenone

Oral	LD50	>10,000 mg/kg (rat)
Dermal	LD50	3,535 mg/kg (rabbit)

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitization:**
May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability:** No further relevant information available.
- **12.3 Bioaccumulative potential:** No further relevant information available.
- **12.4 Mobility in soil:** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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Harmful to aquatic organisms

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SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|--|----------------|
| · 14.1 UN-Number | |
| · ADR/RID/ADN, IMDG, IATA | Not applicable |
| · 14.2 UN proper shipping name | |
| · ADR/RID/ADN, IMDG, IATA | Not applicable |
| · 14.3 Transport hazard class(es) | |
| · ADR/RID/ADN, IMDG, IATA | |
| · Class | Not applicable |
| · Label | - |
| · 14.4 Packing group | |
| · ADR/RID/ADN, IMDG, IATA | Not applicable |
| · 14.5 Environmental hazards | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user: | Not applicable |
| · Danger code (Kemler): | - |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable |
| · UN "Model Regulation": | Void |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **MAK(German Maximum Workplace Concentration)**

128-37-0	2,6-di-tert-butyl-p-cresol	4
1333-86-4	carbon black	3B

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** Not applicable
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** Not applicable
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** Not applicable
- **National regulations:**
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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· **Other regulations, limitations and prohibitive regulations**· **SVHC Candidate List of REACH Regulation Annex XIV Authorisation (16/7/2019)**

None of the ingredients is listed

· **REACH Regulation Annex XVII Restriction (20/06/2019)**

See Section 16 for information about restriction of use.

None of the ingredients is listed

· **REACH Regulation Annex XIV Authorisation List (13/6/2017)**

None of the ingredients is listed

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**· **Relevant hazard statements**

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

· **Classification according to Regulation (EC) No. 1272/2008**

Skin sensitisation

Hazardous to the aquatic environment - long-term
(chronic) aquatic hazard

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No. 1272/2008.

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

DISCLAIMER OF LIABILITY

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reason, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Remark:

* This sample is likely to be classified as article with substances not intended to be released and is out of scope of a SDS as set out in Regulation (EC) No 1907/2006. This SDS is generated for client's reference only.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

End of document

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